To Karin you will fairl this intensting Germanent machen are required Research and Development Department per S. Dani 'a letter line Cotos P.O. Box 579, Niagara Falls, N. Y. August 4, 1972 now owner/operates shall we make them do this ?? ,

TO:

Mr. A. H. Soeder

COPY:

R. & D. File

FROM:

HJO'H:et Attach.

H. J. O'Hear (3)

SUBJECT: Survey of Radioactive Waste Burial Plot

The radioactive waste burial plot located in the Union Carbide Refuse Property was monitored for radiation on August 2, 1972.

MEMORANDUM

The plot was first monitored along parallel lines at 10' intervals, and then laid out in approximately 10' x 15' grids and the survey repeated with readings at the corners of each grid tabulated.

The measurements were taken on a Model 111B "Scintillator" (AEC No. SBX - 11A) manufactured by Precision Radiation Instruments. Inc. and which has a sensitivity of better than 0.005 MR/HR.

Immediately prior to the survey the instruments operation and calibration were checked against a 0.1 MR Scintillator Calibration Disc (Geophysical Instrument and Supply Company - 11/5/71).

The readings are noted on the accompanying sketch and are the actual meter readings uncorrected for background. A background measurement is also noted.

O'Hear, R.S.O

RECEIVED

JAN 1 4 1981

BUR of ENV RADIATION

OCT 3 0 1972

THE TIME COUNTY BEACH FEFT.

MIGGARA FALLS, N. Y.

Survey of Radioactive Waste Burial Plot Values are Instrument Readings in MR/HR Uncorrected for Background

				1. 5. 4. 4. (
.04	.01	.01	.01	.025	.035	.015	.0
.01	.01	.01	.015	.015	.02	.015	.0
.01	.01	.01	.01	.015	.02	.015	.0
.01	.01	.01	.01	.015	.02	.015	.0
.02	.01	.02	.05	.04	.03	.02	.0
01	.01	.015	.02	.025	.035	.02	.0
•			•				•

.01 MR/HR

Roadway



UNION CARBIDE CORPORATION MINING AND METALS DIVISION

P. O. BOX 66, 137 - 47th STREET, NIAGARA FALLS, NEW YORK 14302

> Marking Co

AUC : 1972

T. J. REICHARR

August 1, 1972

FILE NIAGNED PLANT-PLANT-PEAL ESTATE Howard

Mr. Herbert Heimerl Statler Hilton Hotel Delaware Avenue Buffalo, New York

Dear Herb,

Attached is the information I think you will need to file in Niagara County Clerk's office. If you need more, please let me know.

Very truly yours,

CAASoedur

A.H.Soeder/W Attachments

CC: Messrs. R. A. Casciani

F. Early

W. J. O'Brien

H. F. Reichard

R. D. Simmons

During the period August 1965 to April 1972 505 tons of slag containing 9,212 pounds of natural Thorium Oxide and 1,293 pounds of natural Uranium Oxide were buried in Lots number 9 and 13, Parcel 17 in the Town of Niagara.

The slag is buried with four feet of cover. The burial site location is shown on Union Carbide's Drawing ENS 716, the original is on file at Union Carbide, Mining and Metals Division plant at 137 – 47th Street. The location is also outlined by steel posts containing signs stating, "Danger Radioactive Material Buried four feet below."

The burial dates are shown on the attached sheet.

(AH Seeder

A.H.Soeder/W August 1, 1972



STATE OF NEW YORK DEPARTMENT OF HEALTH

MEREDITH H. THOMPSON, D. ENG.

BUREAU OF RADIOLOGICAL HEALTH
SHERWOOD DAVIES, M.P.H., P.E.
DIRECTOR

DIVISION OF SANITARY ENGINEERING

845 CENTRAL AVENUE ALBANY, N.Y. 12206

July 24, 1972

Mr. A. H. Soeder Union Carbide Corporation Mining and Metals Division P. O. Box 66 137-47th Street Niagara Falls, New York 14302

Dear Mr. Soeder:

This is in reply to your letter of May 31, 1972, regarding the proposed sale of property which includes approximately 10,400 square feet used as a radioactive waste burial plot pursuant to an exemption to the provisions of Section 16.8 of Part 16 of the New York State Sanitary Code.

The following additional information is needed to complete our review of your request:

- 1 A description of the instrumentation used for the survey made by Mr. O'Hear. The description should include the sensitivity of the detector and information on calibration of the instrument.
- 2 The actual survey results including instrument readings and where they were taken.
- 3 A description of the burial site including boundaries and location of permanent markers required by the exemption.
- 4 Indication of compliance with the requirements of paragraph 2 of Page 2 of the exemption letter dated May 28, 1965 which requires the filing of a statement with the Niagara County Clerk.

We will review this additional information and advise you

July 24, 1972

-2

Mr. Soeder

as to any restrictions that may be placed on the use of this site in the future.

Very truly yours,

/Robert F. West Associate Radiological

Health Specialist

RFW:eds

Mr. Cashman - Bureau of Environmental Pollution Control - Att: Mr. Kelleher

Mr. Davies - Bureau of Radiological Health

Union Carbide Corporation

Attached is a copy of a letter dated May 31, 1972, Mr. Mr. A.H. Soeder, Union Carbide Corporation of Niagara Falls, advising that it is their intention to sell property which contains a burial plot in which radioactive materials were buried under a license issued by the State Labor Department and an exemption granted from Part 16 of the State Sanitary Code, 1966. There is also attached a survey made by Mr. O'Hear and a listing of the amounts of material buried. There is also a large map that has been provided which I am unable toreproduce. Essentially, Union Carbide advises us that they intend to sell the burial plot. I would appreciate your comments as soon as possible so that I can advise Mr. Seeder.

SD: lrp

Attachment

cc: Mr. Violanti - Buffalo Regional Office
Mr. Gideon - Niagara County Health Dept.
File
Chrono



UNION CARBIDE CORPORATION

MINING AND METALS DIVISION

P.O. BOX 66, 137 - 47TH STREET, NIAGARA FALLS, NEW YORK 14302

May 31, 1972

RECEIVED

Mr. Sherwood Davies, P.E.
Director, Bureau of Radiological Health Services
State of New York, Department of Health
84 Holland Avenue
Albany, New York 12208

JUN 1 1972

BUR, OF RAD. HEALTH

Dear Mr. Davies:

In 1966 we received a license to process radioactive slag in our production of ferro-columbium. The license No. 950-0139 was issued by the State Labor Department. We also received an exemption to the provisions of Section 16.8 of Part 16 of the State Sanitary Code from the State Health Department.

It is now our intention to sell the property which contains the burial plot. This location is shown on our attached drawing No. ENS 716. The entire plot is approximately 37:2 acres and the burial site is 10,400 sq. ft. It is well marked and posted with radiation signs.

In accordance with Section 16.10 Paragraph B we have had a survey of the area made by our Radiation Safety Officer, Mr. Hugh O'Hear, and a copy is attached. He could not detect any radiation above background. At the time of the survey he checked the entire refuse property as well as the burial site. The slag is buried with 4 ft. of cover. Also attached is a listing showing the amounts of slag and radiactive material buried.

The property in question is to be used as a sanitary land fill and would be sold with a stipulation that the burial area should not be disturbed.

We are also sending copies of this letter and attachments to the prospective purchaser and the local County Health Officer. If you desire further information, please advise.

Very truly yours,

App Society

A.H.Soeder/W

Messrs. E. Gedeon, Niagara County Health Officer F. Williams, Niagara Recycling Inc.

Union Carbide Corporation-Mining & Metals Division

Niagara Falls, New York - May 31, 1972

The following amounts of slag were buried on our refuse properly according to our New York State Radioactive Materials License No. 950-0139. The burial site is located on our property as shown in drawing ENS 716.

Dote	Tons Slag	# Radioactive Material
August 1965	250	1250 U ₃ O ₈ 1125 ThO ₂
December 1966	31	1247 ThO ₂
Augusi 1967	29	1107 ThO ₂
November 1967	61	1977 ThO ₂
April 1968	48	1942 ThO ₂
June 1968	43	1814 ThO ₂
July 1971	35	35 U3O8
April 1972	8	8 U3O8
	505	9212 ThO ₂
		1293 U3O ₈

A.H.Socder/W

.ifren

HNING AND METALS DIVISION

P. O. BOX 579, NIAGARA FALLS, NEW YORK 14302

Mr. A. H. Soeder

February 25, 1972

(emails) Jun

Originating Dept.

Research and Development Department

Building No. 2 Niagara Falls, N.Y. 14302

Answering letter date.

Mr. H. F. Wendt R & D File

Sablect

Radiological Survey of the Refuse Property

The refuse property of Union Carbide Corporation, located in the area between Pine Avenue in Niagara Falls and Military and Packard Roads in the Town of Niagara, has been monitored for radiation.

No radiation above background was observed during the survey, with the exception of some radioactive slag which showed a slight amount of radiation but which is scheduled to be buried in the designated radiation area when weather permits.

H. J. O'Hear, R.S.O.

H.J.O.: dg

DATE RECLIVED

JUN 1 1972

Niagara county health dept. Lockport n. 1.



UNION CARBIDE CORPORATION

CHEMICALSXANDXREASTICS Mining and Metals Div. P.O. BOX 66, 137.47TH STREET, NIAGARA FALLS, NEW YORK 14302

April 29, 1968

Mr. W. Friedman
Asst. Commissioner for Environmental Health
Niagara County Department of Health
525 Bewley Building
Lockport, New York

Dear Mr. Friedman:

During the week of April 29, 1968, we propose to dispose of 96,000 pounds of thorium bearing slag containing 1,942 pounds of ThO₂. This slag will be buried in compliance with our letter of April 8, 1965, and under provisions of the State Department of Health, Mr. Sherwood Davies' letter on exemption burial dated October 26, 1966.

The area will be posted and monitored as previously outlined. The slag will be buried in the plot as shown on our drawing as previously submitted. If further information is desired, please advise.

Very truly yours,

Operating Supervisor - Specials 0 &

P. J. Sitzenstatter:ob

cc: Mr. J.A. Meele



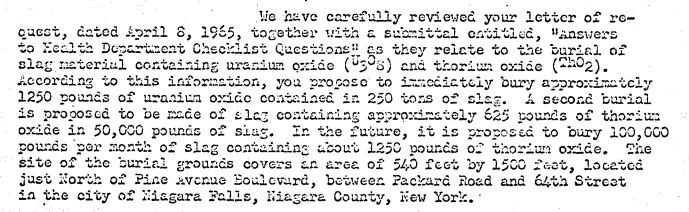
HOLLIS S. INGRAHAM, M.D. COMMISSIONER STATE OF NEW YORK
DEPARTMENT OF HEALTH

84 HOLLAND AVENUE ALBANY, NEW YORK 12208 A May 28, 1965

Mr. A. H. Soeder Superintendent, Operations Union Carbide Corporation P. O. Box 596 137-47 Street Miagara Falls, New York

Reference: Exemption Burial

Dear Mr. Soeder:



An exemption to the provisions of Scation 16.8 of Part 16 of the State Sanitary Code, is hereby granted with respect to the total quantity of radioactive material that may be buried at any one time, in any one location and with respect to the frequency of burials. This exemption is granted on the condition that Union Carbide inform the Miagara County Department of Health of certain information including the amount of radioactive materials, the location of burial, and the content of radioactivity in the materials. Further, permanent markers shall be established locating the boundaries of the burial site.

If it becomes the intent of the company to sell the property on which the site is located, it will be necessary to meet the

DIVISION OF ENVIRONMENTAL HEALTH SERVICES

MEREDITH H. THOMPSON, D. ENG.

BUREAU OF
RADIOLOGICAL HEALTH SERVICES
SHERWOOD DAVIES, D.C.E., M.P.H.



requirements of Section 16.10, paragraph B. This section requires that a survey be made before the property is turned over to the new owner. A copy of the report of the survey shall be provided this Department, the local health efficer having jurisdiction and the subsequent tenant.

Prior to negotiation of a contract for cale, lease or other transfer of any parcel of property designated as a disposal area and exempted from the provision of Section 16.8 of the Sanitary Code of the State of New York (10 NYCRR 15.8), the Corporation shall file in the office of the clerk of the County of Miagara in the Book of Covenants, Restrictions, Trusts and Forms, a form stating the period during which burials of radioactive waste have occurred together with the total amount of each radioisotope buried as waste.

Based upon this Department's findings, this burial operation can safely be maintained without causing an undue health hazard.

Very truly yours,

(3)

Sherwood Davies, P.E. Director, Bureau of

Radiological Health Services